

❑ Using the 訊息 button (Now & Next guide)

The display identifies the current channel and the status of certain audio-video settings.

The Now & Next guide shows daily TV programme information for each channel according to the broadcasting time.

📝 When you press the 訊息 button, a channel information banner will appear on the top of the screen. And then press the **ENTER**  button, you can see the details of the programme.

- Scroll ◀ ▶ to view information for a desired programme while watching the current channel.
- Scroll ▲ ▼ to view information for other channels.



Memorizing channels

Auto Tuning

 選單 → **Broadcasting** → **Auto Tuning** → **ENTER**

Scans for a channel automatically and stores in the TV.

 Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked, the PIN input window appears.

 If the aerial is connected to ANT IN (CABLE), select **Cable** and if it is connected to ANT IN (AIR), select **Terrestrial** (depending on the country and model).

When Aerial Source is set to Both, Terrestrial or Cable

When selecting **Both**: Select both **Terrestrial** and **Cable** options.

When selecting **Terrestrial**: Scan for **Digital & Analogue**, **Digital** and **Analogue** channels.

When selecting **Cable**: Scan for **Analogue** channels.

- **Analogue Cable System**: Select the **Analogue Cable System** among **STD**, **HRC** and **IRC** by pressing the ▲ or ▼ button, then press the **Scan**.

■ Aerial

 選單  → **Broadcasting** → **Aerial** → **ENTER** 

Before your television can begin memorising the available channels, you must specify the type of signal source that is connected to the TV (i.e. an **Terrestrial** or a **Cable** system).

❑ Using the Channel menu

■ Channel List

 選單  → **Broadcasting** → **Channel List** → **ENTER** 

The **Channel List** contains the channels your TV displays (added channels) when you press the 頻道 button. You can view channel information, **All**, **TV**, **Analogue** or **Favourites 1-5**. Press ► (**Mode**) button to change the channel mode or press ◀ (**Sorting**) button to change the channel order according to channel number or name on the list.

 When you press the 頻道 button, **Channel List** screen is displayed at once.

Channel Sorting

- **Number / Name**: Arrange the channel order according to channel number or name on the list.

Channel Mode

- **Aerial**: Switch between **Terrestrial** and **Cable**.
- **Edit Favourites**: Set channels you watch frequently as favourites. Add or delete the selected channel in **Favourites 1-5**.
 -  For detailed information about using **Edit Favourites**, refer to “**Edit Favourites**”.
- **Favourites 1-5**: Show all favourite channels, arranged in up to five groups. Each group has a separate screen.
 -  The TV displays **Favourites 1-5** only if you have added favourites using **Edit Favourites**.
- **All**: Shows all currently available channels.
- **TV**: Shows all currently available digital channels.
- **Analogue**: Shows all currently available analogue channels.

■ Guide

(Depending on the country and model)

 選單  → **Broadcasting** → **Guide** → **ENTER** 

The EPG (Electronic Programme Guide) information is provided by broadcasters. Using programme schedules provided by broadcasters, you can specify programmes you want to watch in advance so that the channel automatically changes to the selected programme channel at the specified time. Programme entries may appear blank or out of date depending on a channel status.

- **A** Red (**Quick Nav**): Viewing the TV programmes on the list quickly using ▲/▼/◀/▶ buttons.
- **B** Green (**Channel Category**): Select the type of channels you want to display.
- **C** Yellow (**Schedule Manager**): Moves to the reserved programmes in **Schedule Manager**.

– Watch / Schedule Viewing

-  When selecting the current programme, you can watch the selected programme.
-  When selecting the future programme, you can reserve to watch the selected programme. To cancel the schedule, press the **ENTER**  button again and select **Cancel schedule**.

■ Schedule Manager

 選單  → **Broadcasting** → **Schedule Manager** → **ENTER** 

You can set a desired channel to be displayed automatically at the intended time. In addition, you can view, modify or delete a channel you have reserved to watch.

 You must set the current time first using the **Time** → **Clock** function in the **System** menu to use this function.

1. Press the **Schedule** on the **Schedule Manager** screen. The **Schedule Viewing** menu appears.
2. Press the ◀/▶/▲/▼ buttons to set each option menu.
 - **Aerial**: Select the desired broadcasting signal.
 - **Channel**: Select the desired channel.

- **Repeat:** Select **Once**, **Manual**, **Sat~Sun**, **Mon~Fri** or **Everyday**. If you select **Manual**, you can set the day you want.

 A check (✓) mark indicates a day you selected.

- **Date:** You can set a desired date.

 Date is available only when you select **Once** in **Repeat**.

- **Start Time:** You can set the start time you want.

 If you want to edit or cancel a reserved schedule, select the reserved schedule on **Schedule Manager**. Then press the **ENTER** button and select the **Edit** or **Delete**.

■ Edit Channel

 選單  → **Broadcasting** → **Edit Channel** → **ENTER** 

You can add, edit or delete channels.

Deleting a channel from the channel list

- 1 Go to **Edit Channel** screen.
2. Press the ▲/▼ buttons to select the desired channel, and then press **ENTER**  button. The (✓) mark indicates the channel you've selected.
 -  You can select more than one channel.
 -  Press **ENTER**  button again to deselect the channel.
3. Press **B** (**Delete**) button. The selected channel has been deleted from the channel list.

Adding a channel to the channel list

(analogue channels only)

 This function is only available in the Tools menu.

1. Press the 工具 button on the Remote control, and then select **Channel Add/Delete**.
2. Press the ▲/▼ button to select the deleted channel, and then select **Add**.



Using the coloured and function buttons with the **Edit Channel**.

- **A** Red (**Change Number**) (digital channels only): Changes channel order on the channel list.
 -  (**Done**): Completes changing the channel order.
- **B** Green (**Delete**): Deletes a channel from the channel list.
- **C** Yellow (**Lock/Unlock**): Lock a channel so that the channel cannot be selected and viewed. / Unlock the channel that you locked.
 -  This function is available only when the **Channel Lock** is set to **On**.
 -  The PIN input screen appears. Enter your 4-digit PIN, the default of which is “0-0-0-0”. Change the PIN using the **Change PIN** option.
- **D** Blue (**Select All / Deselect All**): Selects or deselects all channels at once.
-  (**Go To**): Goes to channel directly by pressing numbers (0~9).
-  (**Page**): Moves to next or previous page.

-  (**Tools**): Displays the option menu. The option menu items that appear may differ depending on the channel status and type.
 - **Sorting** (digital channels only): Change the list ordered by channel number or channel name.
 - **Aerial**: Select the desired broadcasting signal.
 - **Category**: Change the channel mode to **All**, **TV**, **Analogue**, **Recently Viewed**, **Most Viewed**. The selected channel mode is displayed.
 - **Edit Favourites**: Go to **Edit Favourites** screen directly.
 - **Rename channel** (analogue channels only): Assign a name of up to five characters to a channel. For example, Food, Golf, etc. This makes it easier to find and select the channel.
 - **Channel Info** (digital channels only): Display details of the selected channel.
 - **Information**: Display details of the selected programme.

■ Edit Favourites **TOOLS**

 選單  → **Broadcasting** → **Edit Favourites** → **ENTER** 

You can add, edit or delete favourite channels.

Adding a channel to the Favourites 1-5

1. Go to **Edit Favourites** screen.
2. Press the ▲/▼ buttons to select the desired channel, and then press **ENTER**  button.
3. Choose a specific favourite list among **Favourites 1-5** using **B** (**Change Fav.**) button, and then press the **D** (**Add**) button. The selected channel has been added in **Favourites 1-5**.

 One favourites channel can be added in several of favourites among **Favourites 1-5**.

Deleting a channel from the Favourites 1-5

1. On the **Edit Favourites** screen, select the favourite list using **B** (**Change Fav.**) button.
2. Move to favourite list, and then select the desired channel you want to delete.
3. Press the **D** (**Delete**) button. The selected channel has been deleted from the **Favourites 1-5**.
 -  If you want to change the favourite channel order, press the **A** (**Change order**) button and change the order using **▲/▼** buttons.



Using the coloured and function buttons with the **Edit Favourites**.

- **A** Red (**Category / Change order**)
 - **Category**: Changes the channel mode to **All**, **TV**, **Analogue**, **Recently Viewed**, **Most Viewed**. The selected channel mode is displayed.
 - **Change order**: Changes the favourite channel order.
 -  (**Done**): Completes changing the channel order.
- **B** Green (**Change Fav.**): Changes favourite list among **Favourites 1-5**.
- **C** Yellow (**Select All / Deselect All**): Selects or deselects all channels at once.
- **D** Blue (**Add / Delete**)
 - **Add**: Adds selected channels to **Favourites 1-5**.
 - **Delete**: Deletes the favourite channel from **Favourites 1-5**.
-  (**Go To**): Goes to channel directly by pressing numbers (0~9).
-  (**Page**): Moves to next or previous page.

-  (**Tools**): Displays the option menu. The option menu items that appear may differ depending on the channel status and type.
 - **Copy to Favourites**: Edit the selected favourite channel in **Favourites 1-5**. You can add or delete from favourite list.
 - **Rename Favourites**: Assign your own favourite channel name.
 - **Aerial** (depending on the country and model): Select the desired broadcasting signal.
 - **Sorting** (digital channels only)(depending on the country and model): Change the list ordered by channel number or channel name.
 - **Edit Channel**: Go to **Edit Channel** screen directly.
 - **Information**: Display details of the selected programme.

Locking Programmes

Channel Lock

 選單 → **Broadcasting** → **Channel Lock** → **ENTER**

Lock channels to prevent unauthorized users, such as children, from watching unsuitable programme.

 The PIN input screen appears. Enter your 4-digit PIN, the default of which is “0-0-0-0”.

Other Features

Channel Settings

 選單 → **Broadcasting** → **Channel Settings** → **ENTER**

- **Digital Manual Tuning**

(digital channels only)

Scans for a digital channel manually and stores in the TV. Press the **New** button to search the digital channels by adjusting the **Channel** or **Frequency**.

 If a channel is locked, the PIN input window appears.

 **Digital Manual Tuning** is only available in digital TV mode.

- **Channel**: Set the channel number using the ▲/▼ or number (0~9) buttons.
- **Frequency**: Set the frequency using the number buttons.

- **Fine Tune**

(analogue channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

-  Fine tuned channels that have been saved are marked with an asterisk “*” on the right side of the channel number in the channel banner.
-  To reset the fine-tuning, select **Reset**.

■ Subtitle

(digital channels only)

 選單  → **Broadcasting** → **Subtitle** → **ENTER** 

Use this menu to set the **Subtitle** mode.

- **Subtitle**: Switches subtitles on or off.

Subtitle Mode: Sets the subtitle mode.

 If the programme you are watching does not support the **Hearing Impaired** function, **Normal** automatically activates even if the **Hearing Impaired** mode is selected.

Subtitle Language: Sets the subtitle language.

 English is the default in cases where the selected language is unavailable in the broadcast.

- **Primary Subtitle**: Sets the primary subtitle.
- **Secondary Subtitle**: Sets the secondary subtitle.

■ Audio Options

 選單  → **Broadcasting** → **Audio Options** → **ENTER** 

- **Multi-Track Sound**

(analogue channels only)

Mono: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

Stereo: Choose for channels that are broadcasting in stereo.

SAP: Choose to listen to the Separate Audio Programme, which is usually a foreign-language translation.

 Depending on the particular programme being broadcast, you can listen to **Mono**, **Stereo** or **SAP**.

- **Audio Language**

(digital channels only)

Change the default value for audio languages.

Primary audio / Secondary audio: You can set the primary or secondary audio.

 The available language may differ depending on the broadcast.

- **Audio Format**

(digital channels only)

Select the audio format of current broadcasting. The available items may differ depending on the broadcasting status.

❑ Changing the Preset Picture Mode

■ Picture Mode **TOOLS**

 選單  → **Picture** → **Picture Mode** → **ENTER** 

Select your preferred picture type.

 When connecting a PC, you can only make changes to the **Entertain** and **Standard**.

- **Dynamic**: Suitable for a bright room.
- **Standard**: Suitable for a normal environment.
- **Natural** **for LED 5 series**: Suitable for an eye comfortable display.
- **Movie**: Suitable for watching movies in a dark room.
- **Entertain**: Suitable for watching movies and games.

 It is only available when connecting a PC.

❏ Adjusting Picture Settings

■ Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

☞ 選單☐☐☐ → **Picture** → **Backlight** → ENTER☞

Your television has several setting options for picture quality control.

☞ NOTE

- When connecting a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness** and **Sharpness**.
- Settings can be adjusted and stored for each external device connected to the TV.
- Lowering picture brightness reduces power consumption.

■ Picture Size **TOOLS**

 選單  → **Picture** → **Picture Size** → **ENTER** 

Set the various picture options such as picture size and aspect ratio.

 The available items may differ depending on the selected mode.

 Depending on the input source, the picture size options may vary.

- **Picture Size** **TOOLS** : Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use **16:9** mode most of the time.

16:9: Sets the picture to 16:9 wide mode.

Wide Zoom: Magnifies the picture size more than 4:3.

 Adjust the **Position** by using ▲/▼ buttons in the **Position** screen.

Zoom: Magnifies the 16:9 wide pictures vertically to fit the screen size.

 Adjust the **Zoom** or **Position** by using ▲/▼ buttons in the **Zoom/Position** screen.

4:3: Sets the picture to basic (4:3) mode.

 Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and centre of the screen may cause image retention (screen burn) which are not covered by the warranty.

Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are input.

Custom: Magnifies or shrinks 16:9 pictures vertically and/or horizontally. A magnified or shrunk picture can be moved left, right, up, and down.

 NOTE

- The picture size can vary depending on the input resolution when content is played using **Videos** under **Media Play**.

- **Position:** Adjust the picture position. It is only available in **Screen Fit** or **Wide Zoom**.
- **Zoom/Position:** Adjust the picture size and position. It is only available in **Zoom**.

NOTE

- After selecting **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p) mode, you may need to centre the picture. Select **Position**, then follow the steps below in the **Position** screen.
 1. Select the **Position**, press the **ENTER**  button.
 2. Press the **▲/▼/◀** or **▶** button to move the picture.
 3. Press the **ENTER**  button.
- If you want to reset the position you adjusted, select **Reset** in the **Position** screen. The picture will be set to its default position.
- Depending on the input source, the picture size options may vary.

- The available items may differ depending on the selected mode.
- When connecting a PC, only **16:9** and **4:3** modes can be adjusted.
- Settings can be adjusted and stored for each external device connected to an input on the TV.
- If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.



■ PIP

 選單  → **Picture** → **PIP** → **ENTER** 

You can watch the TV tuner and one external video source simultaneously. **PIP** (Picture-in-Picture) does not function in the same mode.

NOTE

- For PIP sound, refer to the **Sound Select** instructions.
- If you turn the TV off while watching in **PIP** mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

- PIP Settings

Main picture	Sub picture
Component, HDMI1, HDMI2/DVI	TV

- **PIP**: Activate or deactivate the **PIP** function.
- **Aerial**: Select either **Terrestrial** or **Cable** as the input source for the sub-screen.
- **Channel**: Select the channel for the sub-screen.
- **Size** ( / ): Select a size for the sub-picture.
- **Position** ( /  /  / ): Select a position for the sub-picture.
- **Sound Select**: You can choose the desired sound (**Main** or **Sub**) in **PIP** mode.

❏ Changing the Picture Options

■ Advanced Settings

 選單  → **Picture** → **Advanced Settings** → **ENTER** 

(available in **Standard / Movie** mode)

When connecting a PC, you can only make changes to the **White Balance** and **Gamma**.

- **Dynamic Contrast**: Adjust the screen contrast.
- **Black Tone**: Select the black level to adjust the screen depth.
- **Flesh Tone**: Emphasize pink “Flesh Tone”.
- **RGB Only Mode**: Displays the **Red**, **Green** and **Blue** colour for making fine adjustments to the hue and saturation.

- **Colour Space:** Adjust the range of colours available to create the image.
- **White Balance:** Adjust the colour temperature for a more natural picture.
 - R-Offset / G-Offset / B-Offset:** Adjust each colour's (red, green, blue) darkness.
 - R-Gain / G-Gain / B-Gain:** Adjust each colour's (red, green, blue) brightness.
 - Reset:** Resets the **White Balance** to its default settings.

- **Gamma:** Adjust the primary colour intensity.
- **Motion Lighting:** Reduce power consumption by brightness control adapted motion.
 - ☞ When you change the **Back light**, **Contrast** or **Brightness**, the TV sets **Motion Lighting** to **Off**.
 - ☞ Only available in **Standard** mode.

■ Picture Options

 選單  → **Picture** → **Picture Options** → **ENTER** 

 When connecting a PC, you can only make changes to the **Colour Tone**.

- **Colour Tone**

 **Warm1** or **Warm2** will be deactivated when the picture mode is **Dynamic**.

 Settings can be adjusted and stored for each external device connected to an input on the TV.

- **Digital Clean View:** If the broadcast signal received by your TV is weak, you can activate the **Digital Clean View** feature to reduce any static and ghosting that may appear on the screen.

 When the signal is weak, try other options until the best picture is displayed.

Auto Visualisation: When changing analogue channels, displays signal strength.

 Only available for analogue channels.

 When the 訊息 button is pressed, the signal strength bar is displayed.

 When bar is green, you are receiving the best possible signal.

- **MPEG Noise Filter:** Reduces MPEG noise to provide an improved picture quality.

- **HDMI Black Level:** Selects the black level on the screen to adjust the screen depth.
 Available only in HDMI mode (RGB signals).
- **Film Mode:** Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.
 Available in TV mode and external input mode which supports SD (480i / 576i) and HD (1080i) signals except in PC mode.
 If the screen does not seem natural, change its option to **Off / Auto1 / Auto2** in **Film Mode**.

- **LED Clear Motion** (Depending on the country and model): Removes drag from fast scenes with a lot of movement to provide a clear picture.
 - ☞ It will be deactivated when the **Picture Mode** is set to **Natural**.
 - ☞ The screen may become slightly darker when you play **LED Clear Motion**.



■ Picture Off

 選單  → **Picture** → **Picture Off** → **ENTER** 

The screen is turned off but the sound remains on. Press any button except volume and power button to turn on the screen.

■ Reset Picture

 選單  → **Picture** → **Reset Picture** → **ENTER** 

Resets your current picture mode to its default settings.



❏ Changing the Preset Sound Mode

■ Sound Mode

☞ 選單☐☐☐ → **Sound** → **Sound Mode** → ENTER☞

☞ If **Speaker Select** is set to **External Speaker**, **Sound Mode** is disabled.

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sounds to allow a better listening experience for the hearing impaired.

❏ Adjusting Sound Settings

■ Sound Effect

 選單  → **Sound** → **Sound Effect** → **ENTER** 

(standard sound mode only)

Use the up and down arrow keys to select an option, and then press **ENTER** .

 If **Speaker Select** is set to **External Speaker**, **Sound Effect** is disabled.

- **DTS TruSurround HD**

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers or headphones using HRTF (Head Related Transfer Function) technology.

- **DTS TruDialog**

This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

- **Equaliser**

Use **Equaliser** to customize sound setting for each speaker.

Balance: Adjusts the balance between the right and left speaker.

100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.

Reset: Resets the equaliser to its default settings.



■ Speaker Settings

 選單  → **Sound** → **Speaker Settings** → **ENTER** 

- **Speaker Select**

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

 When **Speaker Select** is set to **External Speaker**, the volume and 靜音 buttons will not operate and the sound settings will be limited.

 When **Speaker Select** is set to **External Speaker**, you should use these settings. 

- **TV Speaker:** Off, **External Speaker:** On

 When **Speaker Select** is set to **TV Speaker**, you should use these settings.

- **TV Speaker:** On, **External Speaker:** On

 If there is no video signal, both speakers will be mute.

- **Auto Volume**

To equalize the volume level on each channel, set to **Normal**.

Night: This mode provides an improved sound experience compared to **Normal** mode, making almost no noise. It is useful at night.



To use the volume control on the source device connected to the TV, set **Auto Volume** to **Off** on the TV. Otherwise, a change to the volume control of the source device may not be applied.

- **TV Installation Type**

Specify the TV's installation type. Choose between **Wall Mount** and **Stand** to optimise the TV's sound automatically.

■ Additional Settings

 選單 → **Sound** → **Additional Settings** → **ENTER**

- **DTV Audio Level** (digital channels only): This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.
 -  According to the type of broadcast signal, **MPEG/HE-AAC** can be adjusted between -10dB and 0dB.
 -  To increase or decrease the volume, adjust between the range 0 and -10 respectively.

- **Digital Audio Out**

Digital Audio Out is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

Audio Format: You can select the Digital Audio output format. The available Digital Audio output format may differ depending on the input source.

 By connecting to 5.1ch speakers in a dolby digital setup, maximize your interactive 3D sound experience.

Audio Delay: Correct audio-video mismatch, when watching TV or video, and listening to digital audio output using an external device such as an AV receiver (0ms ~ 250ms).

- **Dolby Digital Comp** (digital channels only): This function minimizes signal disparity between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).

 Select **Line** to obtain dynamic sound, and **RF** to reduce the difference between loud and soft sounds at night time.

Line: Set the output level for signals greater or less than -31dB (reference) to either -20dB or -31dB.

RF: Set the output level for signals greater or less than -20dB (reference) to either -10dB or -20dB.

■ Reset Sound

 選單  → **Sound** → **Reset Sound** → **ENTER** 

Reset all sound settings to the factory defaults.



Executing initial setup

Setup

 選單 → **System** → **Setup** → **ENTER**

Configure the channels and the time when setting up the TV for the first time or when resetting the unit.

 Execute the initial setup following instructions that the TV guides.

 Enter your 4-digit PIN, the default of which is 0-0-0-0.

❏ Setting the Time

■ Time

📏 選單  → **System** → **Time** → **ENTER** 

📏 The current time will appear every time you press the 訊息 button.

- **Clock**: Setting the clock is for using various timer features of the TV.

📏 If you disconnect the power cord, you have to set the clock again.

Clock Mode: Set up the current time manually or automatically.

- **Auto**: Set the current time automatically using the time from a digital channel.

📏 The aerial must be connected in order to set the time automatically.

- **Manual:** Set the current time manually.

 Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.

- **Clock Set:** Set the **Date** and **Time**.

 Available only when **Clock Mode** is set to **Manual**.

 You can set the **Date** and **Time** directly by pressing the number buttons on the remote control.

Using the Sleep Timer

 選單 → **System** → **Time** → **Sleep Timer** → **ENTER**

- **Sleep Timer** : Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

 Use the ▲/▼ buttons to select a period of time, and then press **ENTER**. To cancel the **Sleep Timer**, select **Off**.

❏ Setting the On/Off Timer

 選單 → **System** → **Time** → **On Timer <or> Off Timer** → **ENTER**

- **On Timer:** Three different on timer settings can be made. You must set the clock first.

Setup: Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual** to set at your convenience. If you select **Manual**, you can set up the day you want to activate the timer.

 The ✓ mark indicates the day you've selected.

Time: Set the hour, minute, am/pm.

Volume: Set the desired volume level.

Source: To select the source of the content that will play when the TV turns on. You can:

- Select **TV** and have the TV display a specific air or cable channel.
- Select **USB** and have the TV play back photo or audio files from a USB device.
- Select a source on your TV that you have connected a set-top box to, and have the TV display a channel from the set-top box.

 The USB device must be connected to your TV before you can select **USB**.

 If you select a source other than **TV** or **USB**, you must:

- Have a cable or satellite set-top box attached to that source
- Set the set-top box to the channel you want to watch when the TV goes on
- Leave the set-top box turned on.

 When you select a source other than **TV** or **USB**, the **Aerial** and **Channel** options will disappear.

Aerial (when the **Source** is set to **TV**): Select the desired broadcasting signal.

Channel (when the **Source** is set to **TV**): Select the desired channel.

Music / Photo (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files to be played when the TV is turned on automatically.

-  If there is no music file on the USB device or the folder containing a music file is not selected, the Timer function does not operate correctly.
-  When there is only one photo file in the USB, the Slide Show will not play.

-  A folder with too long of a name cannot be selected.
-  Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.
-  It is recommended that you use a USB memory stick and a multi card reader when using **On Timer**.
-  The **On Timer** function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because these devices take a long time to be recognised.

- **Off Timer:** Three different off timer settings can be made. You must set the clock first.

Setup: Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual** to set at your convenience. If you select **Manual**, you can set up the day you want to activate the timer.

 The ✓ mark indicates the day you've selected.

Time: Set the hour, minute, and am/pm.

Economical Solutions

■ Eco Solution

 選單 → **System** → **Eco Solution** → **ENTER**

- **Energy Saving**: This adjust the brightness of the TV in order to reduce power consumption.
- **Eco Sensor** **for LED 5 series**: To enhance your power savings; the picture settings will automatically adapt to the light in the room.

 If you adjust the **Back light**, the **Eco Sensor** will be set to **Off**.

Min. Backlight: When **Eco Sensor** is **On**, the minimum screen brightness can be adjusted manually.

 If **Eco Sensor** is **On**, the display brightness may change (become slightly darker in most cases) depending on the surrounding light intensity.

- **No Signal Power Off:** Sets how quickly the TV switches to standby mode, if no picture is being received.

 Disabled when the PC is in power saving mode.

- **Auto Power Off:** The TV will be automatically turned off when no user operation is received for 4 hours.

 If the **Auto Power Off** option is set to **Off**, the TV will stay on even if no operations are performed on the TV.

Other Features

■ Menu Language

 選單 → **System** → **Menu Language** → **ENTER**

Set the menu language.

1. Select **Menu Language** and press the **ENTER** button.
2. Choose desired language and press the **ENTER** button.

■ Auto Protection Time

 選單  → **System** → **Auto Protection Time** → **ENTER** 

- **Auto Protection Time:** If the screen remains idle with a still image for a certain period of time (**Off**, **2 hours**, **4 hours**, **8 hours**, **10 hours**) defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

■ General

 選單  → **System** → **General** → ENTER 

- **Game Mode**: When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience selecting the game menu.

NOTE

- Precautions and limitations for game mode
 - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
 - If you display the TV menu in **Game Mode**, the screen shakes slightly.

- **Game Mode** is not available when the input source is set to TV.
- After connecting the game console, set **Game Mode** to **On**.
Unfortunately, you may notice reduced picture quality.
- If **Game Mode** is **On**:
 - **Picture Mode** is set to **Game** and **Sound Mode** is set to **Game**.
- **Panel Lock**: Lock or unlock all the keys on the panel. When Panel Lock is on, none of the keys on the panel will work.
- **Boot Logo**: Enable/disable displaying the logo while the TV starts up.

■ Change PIN

 選單  → **System** → **Change PIN** → **ENTER** 

The **Change PIN** screen will appear. Choose any 4 digits for your PIN and enter it in the **Enter New PIN**. Re-enter the same 4 digits in the **Confirm New PIN**. When the Confirm screen appears, press the **ENTER**  button. Your PIN has been memorized.

 The PIN input screen appears before the setup screen. Enter your 4-digit PIN, the default of which is 0-0-0-0.

◀ If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0” : 静音 → 8 → 2 → 4 → **POWER** (on) ▶

■ DivX® Video On Demand

 選單  → **System** → **DivX® Video On Demand** → **ENTER** 

Shows the registration code authorized for the TV. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file. Once you play it using **Videos**, the registration is completed.

 For more information on DivX® VOD, visit “<http://vod.divx.com>”.

❏ Using the Source List

■ Source List

☞ 選單☐☐☐ → Applications → Source List → ENTER☞

☞ When you press the 訊號源 button, **Source** screen will be displayed at once.

☞ You can only choose external devices that are connected to the TV. In **Source**, connected inputs are highlighted.

☞ For the detailed information, refer to “Changing the Input Source” in User Manual.

Using the Sports Mode

Sports Mode

 選單  → Applications → Sports Mode → ENTER 

This mode provides optimized condition for watching sports games.

-  (Zoom): Pause playback and divide the picture into 9 parts. Select a part to zoom it in.
-  When the **Sports Mode** is **On**, the picture and sound modes are set to **Stadium** automatically.
-  If you turn the TV off while watching **Sports Mode**, the **Sports Mode** will be disable.

❑ Using the Family TV Mode function

(Depending on the country and model)

■ Family TV Mode **TOOLS**

 選單  → Applications → Family TV Mode → ENTER 

 This feature may not be available, depending on the model or country.

This function provides Screen Capture or Sound Recording from the TV screen being viewing. Additionally, you can save the capture image and record audio on the USB device connected to the TV. This function provides the TV screen you watched capture image and record audio.

 **Family TV Mode** are for personal use only, not for commercial purpose or communication to the public.

 The user may not use those features to capture pictures or audios without prior approval from the copyright owners or to use it unlawfully.

 Samsung does not accept responsibility for any misuse of the service.

- **Family TV Mode**

Turns the **Family TV Mode** function on or off.

- **Default Recording Device**

You can set the default device for saving captured image files and recorded audio files.

◀  This function is only available when the USB device is connected to the TV. ▶

 If the **Family TV Mode** function is running, this function is not available.

- **Story Replay**

1. To start **Story Replay** while watching TV, press **B**. This records audio in real-time, and captures the screen every 5 seconds in the meanwhile.
 -  A pop-up window will appear on the screen while recording is in progress. The pop-up window displays the duration of the recording.
2. To stop **Story Replay**, press **B**. The recording is stored as a .plt file on the USB device connected to the TV. Thumbnails of the story recordings are then shown on the screen.

-  Select the thumbnail screen to play the saved files on **Media Play**.
-  You cannot change the channel or source to an external device. To change the channel or the source to an external device, first stop story recording.

Story Replay feature is just an application provided by samsung and samsung does not take any responsibility of its use by the user. The use/intended use of the application is for the personal or private use of the user only. User shall be responsible for complying with all other laws of the land while using the application and shall further be liable for any damage, penalty, legal action arising out of misuse of application, including without limitation, infringement of intellectual property rights.

Screen Capture

1. To capture the screen while watching TV, press **C**. This captures the screen. It may take 2 to 3 seconds to capture the screen.
2. Once captured, the image is saved as a .jpg file to the USB device connected to the TV. Thumbnails of captured images are then displayed on the screen.
 -  Select the thumbnail screen to view the saved images on **Media Play**.
 -  Screen capture resolution: 1280 x 720

Sound Recording

1. Press **D**. This records audio in real-time.
 -  A popup window will appear on the screen while recording is in progress. The popup window displays the duration of the recording.
2. To stop recording, press **D**. The recording is stored as a .wav file on the USB device connected to the TV. Thumbnails of the audio recordings are then shown on the screen.
 -  Select the thumbnail screen to play the saved audio files on **Media Play**.
 -  You cannot change the channel or source to an external device. To change the channel or the source to an external device, first stop recording audio.

Restrictions

-  A USB device must be connected to the TV in order to use it.
-  **Family TV Mode** can only be used if there is more than 5MB free space available on the USB device connected to the TV.
-  Do not turn off the TV or disconnect the USB device while using **Family TV Mode**. The file might not be saved or play if you do so.
-  If the strength of the broadcast signal decreases or the signal is dropped altogether while using **Family TV Mode**, the concerned file might not be saved or play.



Family TV Mode cannot be used under the following circumstances:

- While **Media Play** is running
- While using **PIP**
- No signal
- Data service channels
- Scrambled channels
- Service not available channels
- Parental lock channels



❏ Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and movie files to the USB port on the side of the TV.
3. When USB is connected to the TV, popup window appears. You can select the **Photos**, **Videos**, **Music** or **Story Replay** directly. (Depending on the country and model)

 It might not work properly with unlicensed multimedia files.

 Need-to-Know List before using Media Contents

- MTP (Media Transfer Protocol) is not supported.
- Supported file systems are FAT and exFAT.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Media Contents only supports sequential jpeg format.
- Media Contents only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers (USB HUB are not supported). Devices should be connected directly to the TV's USB port.

- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 x 8640 pixels.
- For unsupported or corrupted files, the “Not Supported File Format” message is displayed.
- The scene search and thumbnail functions are not supported in the **Videos**.

- 
- 
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
 - PTP connection mode is fully available only with digital cameras. When connecting a smartphone or tablet to the TV using PTP mode, it may not be recognized. (depending on the country and model)
 - Connect a USB HDD to the dedicated USB (HDD 5V 1A) port. More than 2TB USB HDD is not supported.
 - If the TV has been no input during time set in **Auto Protection Time**, the screen saver will run.

- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.
- If a USB extension cable is used, the USB device may not be recognised or the files on the device may not be read.
- If a USB device connected to the TV is not recognised, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- If a file deleted from the PC is still found when Media Contents is run, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.

Disconnecting a USB Device

1. Press the 訊號源 button.
 2. Select a desired USB device, and then press the 工具 button. The **Tools** menu appears.
 3. Select **Disconnect USB Device**, and then wait until the selected USB device is disconnected. You can remove a USB device from the TV.
-  To remove a USB device from the TV, we recommend use **Disconnect USB Device** function.

Using the Media Play

 選單 → **Applications** → **Media Play** → **ENTER**

Enjoy photos, music and movie files saved on a USB Mass Storage Class (MSC) device.

1. Press the **MEDIA.P** button.
2. Press  button to select desired menu (**Photos**, **Videos**, **Music**, **Story Replay**), then press the **ENTER** button. (Depending on the country and model)
3. Press  button to select desired device, then press the **ENTER** button again.
4. Press the  button to select the desired file in the list, then press the **ENTER** button or  (Play) button.

Playing the selected files

1. Press the ▲ button to select **Options** at the top of each main screen and select **Play Selected**.
2. Select the desired files.
 -  The check box appears to the left of the selected files.
 -  Press **ENTER**  button again to deselect the file.
3. Press the ▲ button to select **Play**.
 -  You can select or deselect all files pressing the **Select All / Deselect All**.

Copy the files

1. Press the ▲ button to select **Options** at the top of the each main screen and select **Copy**.
2. Select the desired files.
 -  The Check box appears to the left of the selected files.
 -  Press **ENTER**  button again to deselect the file.
3. Press the ▲ button to select **Copy**.
 -  You can select or deselect all files pressing the **Select All / Deselect All**.
 -  You can cancel the copy by pressing the **Cancel**.
4. After press **Copy**, you can select the destination device the copy the file, you can also cancel the copy pressing the **Cancel** button.

❑ Playing the Photos / Videos / Music/ Story Replay

(Depending on the country and model)

During playing a file, press the ▲/▼/◀/▶ button to select the desired menu.

📖 When the option menu is not displayed, press the 工具 button or **ENTER**  button.

📖 You can also use ▶/⏸/■/◀/▶ buttons on the remote control during playback.

📖 If you press the 訊息 button during playback, you can view the playback information.

Playback menu

Button	Operation	Photos	Videos	Music
 / 	Previous/Next	●		
 / 	Start Slide Show / Stop Slide Show	●		
	Play / Pause	Mini Player*	●	●
 / 	Previous/Next	Mini Player*	●	●
 / 	Rewind / Fast forward	●	●	●

*When setting the Background Music to Mini Player in Photos, these buttons appear.

Setting menu

- Photos

Button	Operation	
	Slideshow Settings	You can set the Speed and Effects during the slide show.
	Zoom	You can zoom into images in full screen mode.
	Rotate	You can rotate images in full screen mode.
	Background Music / Mini Player	You can set background music when watching a slide show. / You can control simple playback menus.
	Settings	Picture Mode / Sound Mode: You can adjust the picture or sound setting. Information: You can see detailed information about the played file.

-  During the slide show, all files in the file list will be displayed in order.
-  When you press the  (Play) button (or  button → **Options** → **Slide Show Speed**) in the file list, slide show will be started immediately.
-  During the slide show, you can adjust the slide show speed using  (REW) or  (FF) button.
- Supported Photo Formats
 -  For the details, refer to “Specifications” in User Manual.

● Videos

Button	Operation	
	Search	Search Titles: You can move the other file directly. Search Time Bar: You can search the video using ◀ and ▶ button at one minute interval or entering the number directly.  It may not be supported depending on the input source.
	Repeat Mode	You can play movie files repeatedly.
	Picture Size	You can adjust the picture size to your preference.
	Settings	Subtitle Settings: You can play the video with subtitles. This function only works if the subtitles are the same file name as the video. Picture Mode / Sound Mode: You can adjust the picture or sound setting. Audio Language: You can change the audio language if the video has more than one language. Information: You can see detailed information about the played file.

-  If video time information is unknown, play time and progress bar are not displayed.
-  In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.
- Supported Subtitle / Video Formats
 -  For the details, refer to “Specifications” in User Manual.

● Music

Button	Operation	
	Repeat	You can play music files repeatedly.
	Shuffle	You can play the music randomly.
	Sound Mode	You can adjust the sound setting.

- ◀
-  Only displays the files with supported music file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
-  If the sound is abnormal when playing music files, adjust the **Equaliser** in the **Sound** menu. (An over-modulated music file may cause a sound problem.)
- ▶
- Supported Music Formats
-  For the details, refer to “Specifications” in User Manual.

Setting the Encoding language

Set the encoding language if the text is not supported.

1. Press the ▲ button to select **Options** at the top of music main screen and select **Encoding**.
2. Select the desired encoding language.



- Components & DTV

Source	Resolution	Frequency (Hz)
Components	1280 x 720p	50 / 59.94 / 60 Hz
	1920 x 1080i	50 / 59.94 / 60 Hz
	1920 x 1080p	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 Hz
DTV	1280 x 720p	50 / 59.94 / 60 Hz
	1920 x 1080i	50 / 59.94 / 60 Hz
	1920 x 1080p	25 Hz

Viewing the e-Manual

e-Manual

 選單 → **Support** → **e-Manual** → **ENTER**

You can read the introduction and instructions about the TV features stored in your TV.

 For the detailed information about e-Manual Screen, refer to “How to view the e-Manual” in User Manual.

□ Using the Self Diagnosis

■ Self Diagnosis

☞ 選單☞ → **Support** → **Self Diagnosis** → **ENTER**☞

- **Picture Test:** Use to check for picture problems.

Yes: If the test picture does not appear or there is noise in the test picture, select Yes. There may be a problem with the TV. Contact Samsung's Call Centre for assistance.

No: If the test picture is properly displayed, select No. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Sound Test:** Use the built-in melody sound to check for sound problems.

 If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu.

 The melody will be heard during the test even if the sound is muted by pressing the 静音 button.

Yes: If you can hear sound only from one speaker or not at all during the sound test, select Yes. There may be a problem with the TV. Contact Samsung's Call Centre for assistance.

No: If you can hear sound from the speakers, select No. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Signal Information:** (digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your aerial to increase signal strength.
- **Reset:** Reset all settings to the factory defaults except network settings.
 -  The PIN input screen appears before the setup screen.
 -  Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.

❑ Updating the Software

■ Software Update

 選單  → **Support** → **Software Update** → **ENTER** 

The **Software Update** menu lets you upgrade your TV's software to the latest version.

Current Version-the software already installed in the TV.

 When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

- **Update now**

- By USB: Insert a USB drive containing the firmware upgrade file, downloaded from “www.samsung.com” into the TV.

 Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade.

- By Channel: Upgrade the software using the broadcasting signal.

 If the function is selected during the software transmission period, software will be automatically searched and downloaded.

 The time required to download the software is determined by the signal status.

- **Auto Update**: A manual upgrade will be automatically performed at selected time. Since the power of the unit is turned on internally, the screen may be turned on slightly for the product. This phenomenon may continue for more than 1 hour until the software upgrade is complete.

❏ Changing the Use Mode

■ Use Mode

 選單  → **Support** → **Use Mode** → **ENTER** 

Select the **Use Mode** suitable for your place. We strongly recommend you select **Use Mode**.

 If your TV has been unintentionally set to **Store Demo**, you can change the mode with this option.

- **Home Use:** **Home Use** is the default setting.
- **Store Demo:** **Store Demo** is for retail environments only. If you select **Store Demo**, some functions will not work, and the picture settings will be reset every 5 minutes.

Viewing the Contact Samsung

Contact Samsung

 選單 → **Support** → **Contact Samsung** → **ENTER**

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centres, and how to download products and software.

